

FCC Radio Test Report

FCC ID : TVE-260105
Equipment : Secured Wireless Access Point
Brand Name : FORTINET
Model Name : FAP-221Kxxxxxxxxxx, FortiAP 221Kxxxxxxxxxx,
FORTIAP-221Kxxxxxxxxxx
(Where "x" can be used as "A-Z", or "0-9", or "-", or
blank for software changes or marketing purposes only)
Applicant : Fortinet, Inc.
909 Kifer Road, Sunnyvale, CA 94086, USA
Manufacturer : Fortinet, Inc.
909 Kifer Road, Sunnyvale, CA 94086, USA
Standard : 47 CFR FCC Part 15.247

The product was received on Dec. 24, 2025, and testing was started from Jan. 07, 2026 and completed on Feb. 03, 2026. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.


Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

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Summary of Test Result

Report Clause	Ref.Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and explanations:

None

Reviewed by: Barry Hsiao

Report Producer: Michelle Tsai

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	Bluetooth Mode	Ch. Frequency (MHz)	Channel Number
2400-2483.5	LE	2402-2480	0-39 [40]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	BT-LE(125kbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(500kbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(1Mbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(2Mbps)	2.0	1TX

Note:

- ♦ Bluetooth LE uses a GFSK (1Mbps/2Mbps/125kbps/500kbps) modulation.
- ♦ BWch is the nominal channel bandwidth.
- ♦ Bluetooth LE 125k/500k/1Mbps uses the same modulation, and 1Mbps was found to be the worst case scenario which was performed full test and recorded in this test report.

1.1.2 Antenna Information

Ant.	Brand Name	Model Name	Antenna Type	Connector	Support	Radio
1	WNC	95XPAD15.GEE	PIFA	I-Pex	2.4G+5G	Radio 1:2.4G Radio 2:5G
2	WNC	95XPAD15.GEF	PIFA	I-Pex	2.4G+5G	Radio 1:2.4G Radio 2:5G
3	WNC	95XPAD15.GEG	PIFA	I-Pex	BT	BT

Ant.	Port	Gain (dBi)						
		2.4G	5G					BT
			UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-4	
1	1	5.76	5.99	5.46	4.39	4.86	4.76	-
2	2	3.47	4.41	4.31	4.54	4.35	3.83	-
3	1	-	-	-	-	-	-	3.57

Note 1: The EUT has three antennas.

For 2.4GHz function:

For IEEE 802.11 b/g/n/ax/be mode (2TX/2RX)

Ant. 1 (port 1), Ant. 2 (port 2) could transmit/receive simultaneously.

For 5GHz function:

For IEEE 802.11 a/n/ac/ax/be mode (2TX/2RX)

Ant. 1 (port 1), Ant. 2 (port 2) could transmit/receive simultaneously.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Ant. 3 (port 1) could transmit/receive.

1.1.3 EUT Information

Operational Condition	
EUT Power Type	From AC Adapter
EUT Function	☒ Point-to-multipoint ☐ Point-to-point
Type of EUT	
☒	Stand-alone
☐	Combined (EUT where the radio part is fully integrated within another device)
	Combined Equipment - Brand Name / Model No.: ...
☐	Plug-in radio (EUT intended for a variety of host systems)
	Host System - Brand Name / Model No.: ...
☐	Other:

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF (dB)	T (s)	VBW (Hz) 1/T
BT-LE(1Mbps)	0.868	0.61	2.172m	500
BT-LE(2Mbps)	0.594	2.26	1.116m	1k

1.1.5 Table for Multiple Listing

Model Name	Description
FAP-221Kxxxxxxxxxx	All the models are identical, the difference model served as marketing strategy.
FortiAP 221Kxxxxxxxxxx	
FORTIAP-221Kxxxxxxxxxx	

Note 1: Where "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only.

Note 2: From the above models, model: FAP-221K was selected as representative model for the test and its data was recorded in this report.

1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 15
 - ♦ ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024
- The following reference test guidance is not within the scope of accreditation of TAF:
- ♦ KDB 558074 D01 v05r02
 - ♦ KDB 414788 D01 v01r01

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Simon Cheng	17.3~18.1℃ / 55~62%	15/Jan/2026
RF Conducted	TH01-HY	Sonic Li	23.4~23.8℃ / 54~57%	15/Jan/2026~16/Jan/2026
Radiated (Co-Location)	03CH03-HY	Simon Cheng	22.3~24.1℃ / 50~54%	03/Feb/2026
☒ Wenhua 3rd. (TAF: 3785)	ADD: No. 58, Aly. 75, Ln. 564, Wenhua 3rd Rd., Guishan Dist. Taoyuan City 333, Taiwan (R.O.C.)			
	TEL: 886-3-327-0868			
Test site Designation No. TW0036 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated	03CH26-HY	Andy Wang	21.3~22.1℃ / 52~57%	07/Jan/2026~08/Jan/2026

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Items	Uncertainty	Remark
AC Power-line Conducted Emissions	3.44 dB	Confidence levels of 95%
Conducted Output Power	1.48 dB	Confidence levels of 95%
Bandwidth	0.05 MHz	Confidence levels of 95%
Conducted Emission	1.48 dB	Confidence levels of 95%
Power Spectral Density	1.22 dB	Confidence levels of 95%
Radiated Emission (9 kHz ~ 30 MHz)	2.9 dB	Confidence levels of 95%
Radiated Emission (30 MHz ~ 1 GHz)	5.64 dB	Confidence levels of 95%
Radiated Emission (1 GHz ~ 18 GHz)	5.02 dB	Confidence levels of 95%
Radiated Emission (18 GHz ~ 40 GHz)	5.28 dB	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	PuTTY Release 0.62
-----------------------	--------------------

Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	200
2440MHz	200
2480MHz	200
BT-LE(2Mbps)	-
2402MHz	200
2440MHz	200
2480MHz	200

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	CTX
1	Adapter Mode

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests			
Tests Item	Emissions in Restricted Frequency Bands		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz	CTX		
1	Adapter Mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT		V	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	CTX
1	Radio 1:2.4G + Radio 2:5G + Bluetooth
Refer to Sporton Test Report No.: FA5D1918 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

2.3 Accessories

Accessories				
Mounting Bracket	Brand Name	Qisda	Model Name	6B.PRANQ.009

Reminder: Regarding to more detail and other information, please refer to user manual.

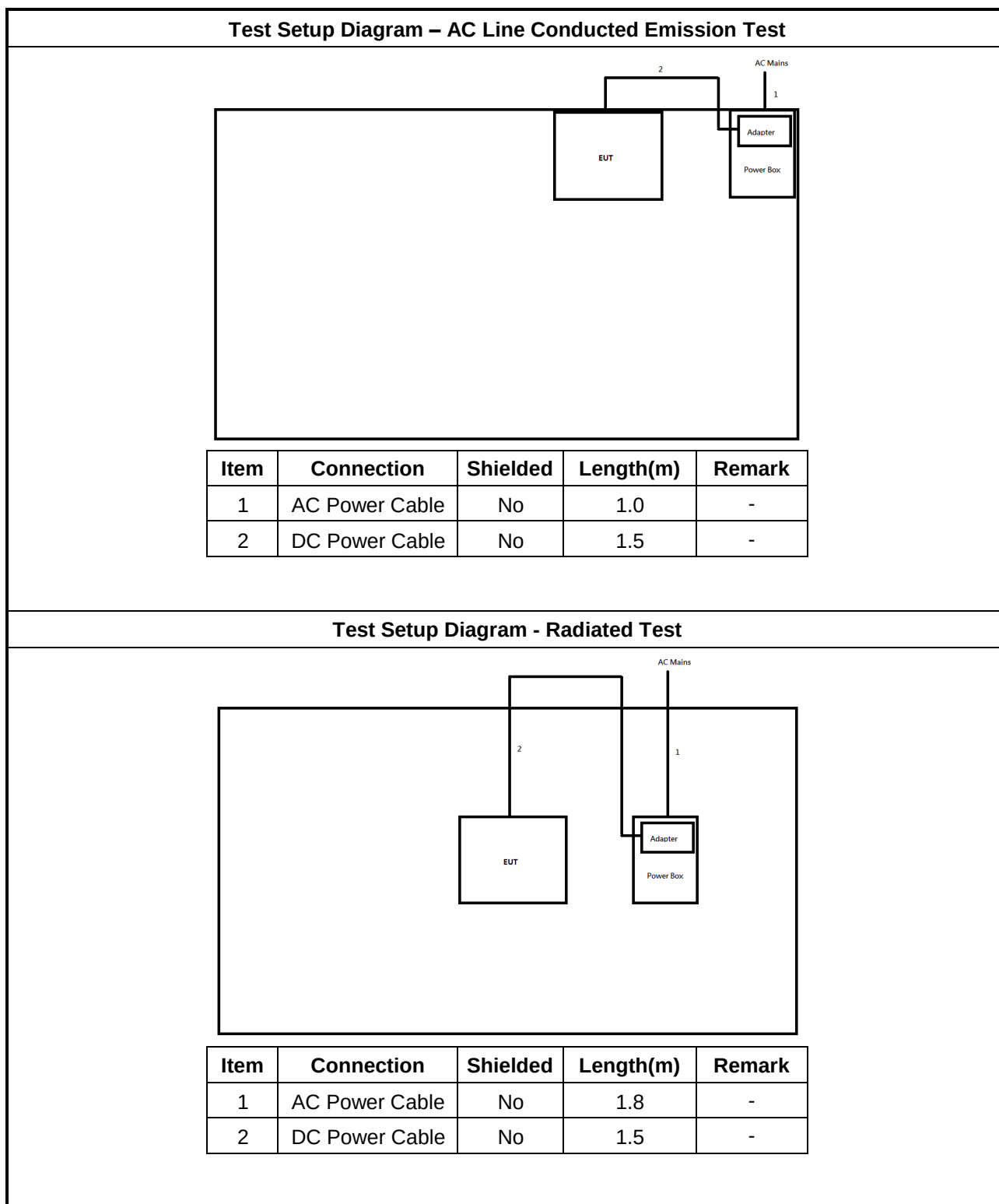
2.4 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	AC Adapter	ASIAN	WA-48A12R	-	Provided by Customer

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	AC Adapter	ASIAN	WA-48A12R	-	Provided by Customer
4	PoE	Microsemi	PD-9001GR/AT/AC	-	Provided by Customer

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	AC Adapter	ASIAN	WA-48A12R	-	Provided by Customer

2.5 Test Setup Diagram



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

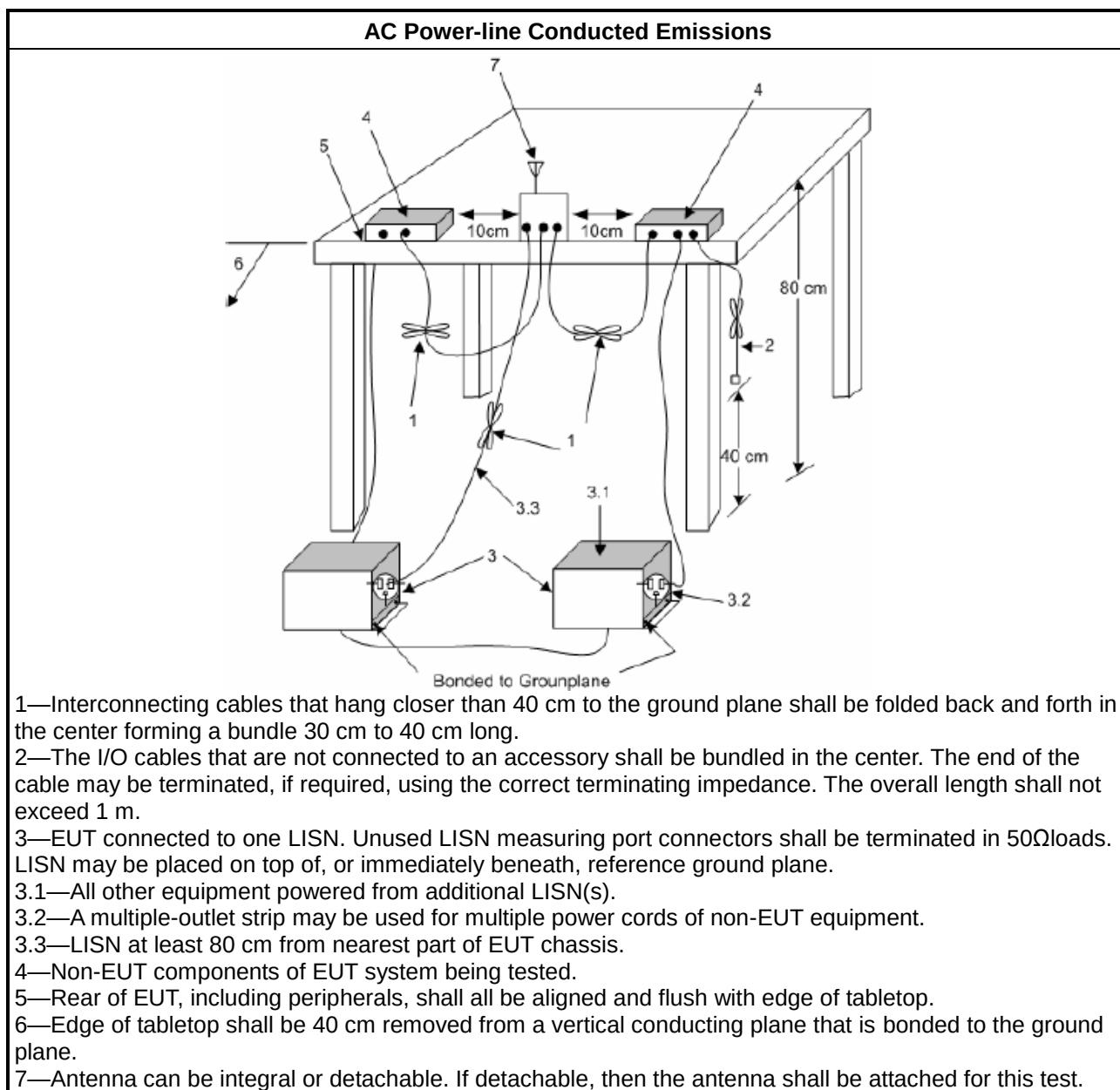
Test Method
▪ Refer as ANSI C63.10, clause 6.2 foray power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

3.1.5 Test Setup



3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit	
Systems using digital modulation techniques:	
▪	6 dB bandwidth $\geq$ 500 kHz.

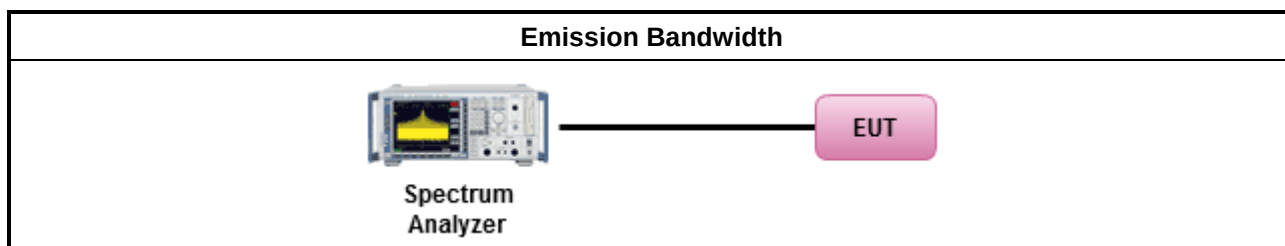
3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method	
▪	For the emission bandwidth shall be measured using one of the options below:
☒	Refer as KDB 558074, clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
☐	Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
☐	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	Smart antenna system (SAS):
	- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm
e.i.r.p. Power Limit:	
	2400-2483.5 MHz Band
	Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)
	Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm
	Smart antenna system (SAS)
	- Single beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	- Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	- Aggregate power on all beams: $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])$ dBm
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

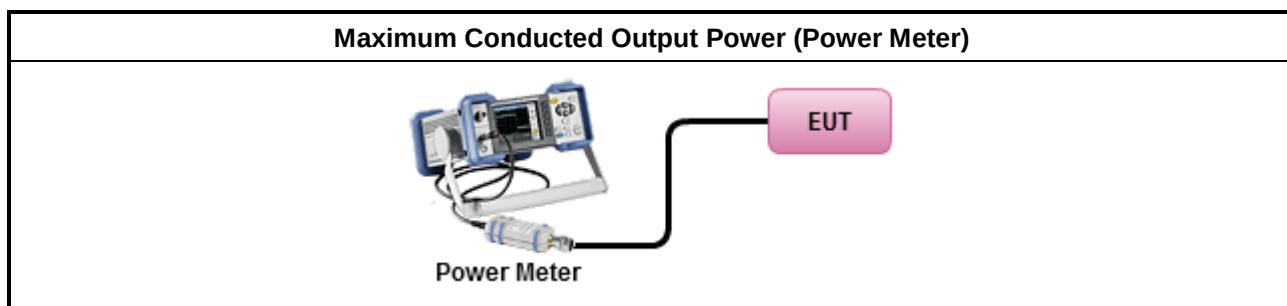
3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method	
Maximum Peak Conducted Output Power	
☐	Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
☐	Refer as KDB 558074, clause 8.3.1.2 integrated band power method.
☐	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.2 of ANSI C63.10) peak power meter.
Maximum Average Conducted Output Power	
☐	Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
☒	Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.	
If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit
Power Spectral Density (PSD) ≤ 8 dBm/3kHz

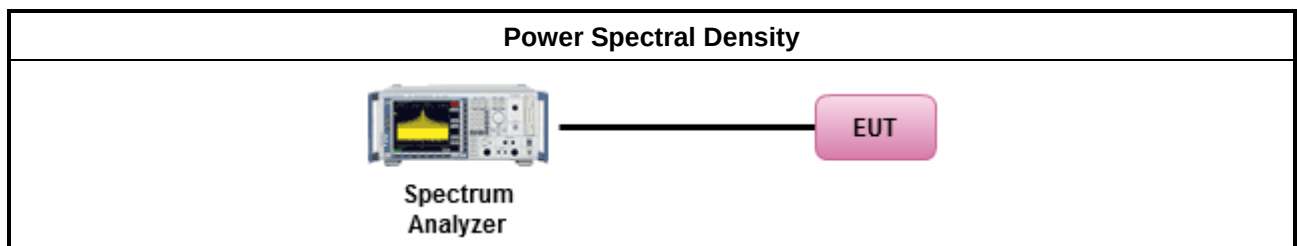
3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method
Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).
☒ Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.
For conducted measurement.
If The EUT supports multiple transmit chains using options given below:
Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dB)
Peak output power procedure	20
Average output power procedure	30
Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak level. Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average level.	

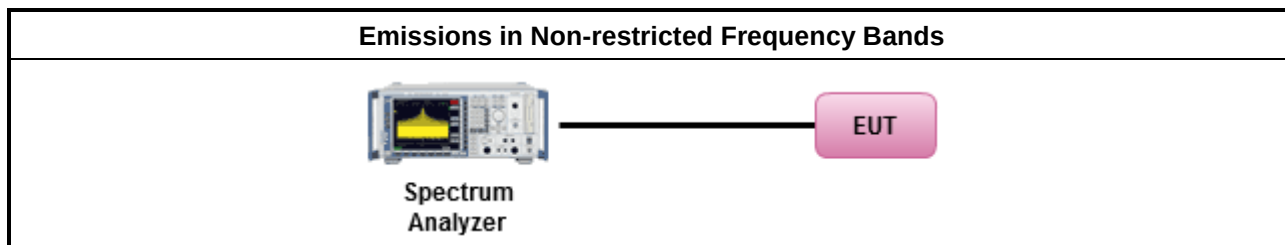
3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method
Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency bands.

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB / decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

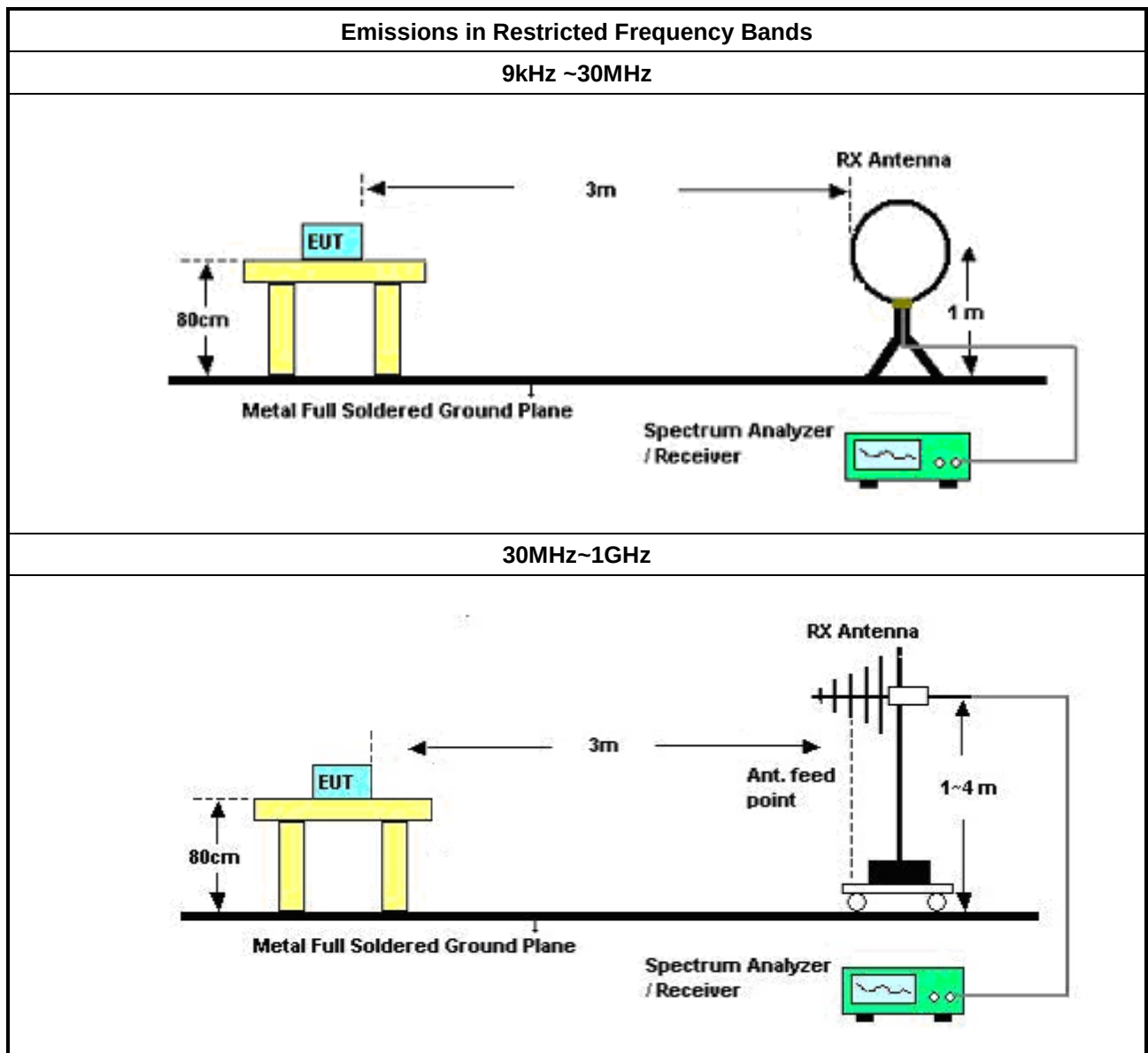
Test Method	
	- The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor]. - Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
	- For the transmitter unwanted emissions shall be measured using following options below: - Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
	- For the transmitter band-edge emissions shall be measured using following options below: - Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below. - Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements. - Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
	- Use the following spectrum analyzer settings: - Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold. - Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
	KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.
	- Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field. - Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

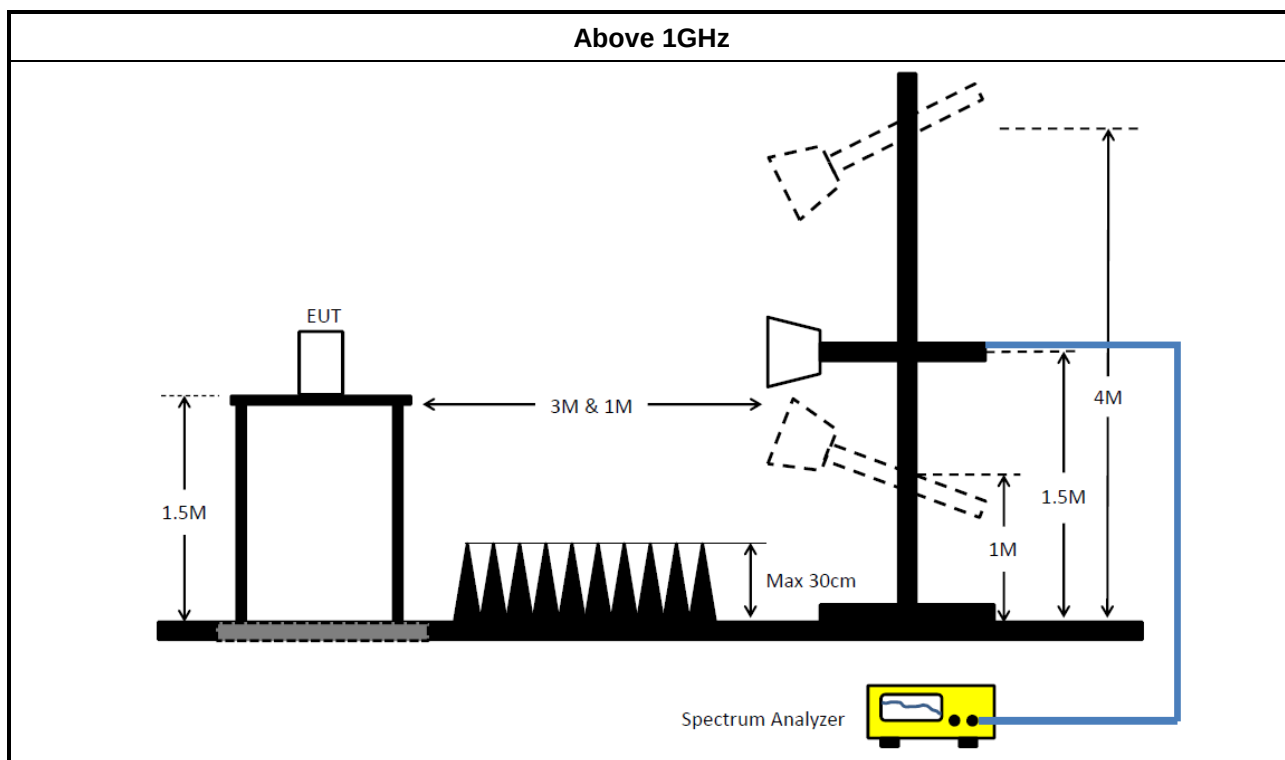
3.6.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

3.6.5 Test Setup





3.6.6 Test Result of Emissions in Restricted Frequency Bands (Below 30MHz)

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	ROHDE & SCHWARZ	ESR3	102051	9kHz ~ 3.6GHz	21/May/2025	20/May/2026
Two-Line V-Network	ROHDE & SCHWARZ	ENV 216	101578	9kHz ~ 30MHz	24/Aug/2025	23/Aug/2026
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	26/Feb/2025	25/Feb/2026
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	1056	9kHz ~ 30MHz	25/Jun/2025	24/Jun/2026
Software	Sporton	SENSE-EMI	V5.11.6	NA	NA	NA

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV3044	101438	10Hz~44GHz	14/Oct/2025	13/Oct/2026
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	29/Oct/2025	28/Oct/2026
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	13/Feb/2025	12/Feb/2026
Pulse Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	13/Feb/2025	12/Feb/2026
SENSE-15247_FS	Sporton	V5.11.27	N/A	N/A	N/A	N/A

Instrument for Radiated Test (Co-Location)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	13/Jul/2025	12/Jul/2026
Signal Analyzer	ROHDE & SCHWARZ	FSV3044	101748	10Hz~44GHz	10/Apr/2025	09/Apr/2026
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02267	1GHz~18GHz	28/Oct/2025	27/Oct/2026
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz ~ 40GHz	02/Jul/2025	01/Jul/2026
RF CABLE 5+8m	HUBER+SUHNER	SUOFLEX_104	03CH03-cable-03	1GHz~40GHz	19/May/2025	18/May/2026
Microwave Premplifier	Agilent	8449B	3008A02326	1GHz~26.5GHz	23/Jul/2025	22/Jul/2026
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	26/Apr/2025	25/Apr/2026
SENSE-15247_FS	Sporton	V5.11.23	NA	NA	NA	NA

Instrument for Radiated Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH26-HY	30MHz~1GHz 3m	06/Aug/2025	05/Aug/2026
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH26-HY	1GHz~18GHz 3m	06/Aug/2025	05/Aug/2026
EMI Test Receiver	ROHDE & SCHWARZ	ESR	102318	9kHz~3.6GHz	08/Dec/2025	07/Dec/2026
Signal Analyzer	ROHDE & SCHWARZ	FSV3044	101411	10Hz~44GHz	30/Sep/2025	29/Sep/2026
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	20/Mar/2025	19/Mar/2026
Bilog Antenna & 6dB Attenuator	TESEQ & VGT	CBL 6111D & VFA 04002-06	63540/002	30MHz~1GHz	04/Jun/2025	03/Jun/2026
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02877	1GHz~18GHz	02/Jul/2025	01/Jul/2026
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	07/Oct/2025	06/Oct/2026
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB009	9kHz~1GHz	03/Oct/2025	02/Oct/2026
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB009	1GHz~40GHz	03/Oct/2025	02/Oct/2026
Preamplifier	SGH	PRAMP 903	20230515-2	30MHz~1GHz	21/May/2025	20/May/2026
Preamplifier	SGH	PRAMP 118-H	20230515-4	1GHz ~18GHz	21/May/2025	20/May/2026
Amplifier	EM	EM18G40G	060874	18GHz ~ 40GHz	18/Apr/2025	17/Apr/2026
SENSE-15247-FS	Sporton	V5.11.27	NA	NA	NA	NA



Conducted Emissions at Powerline

Appendix A

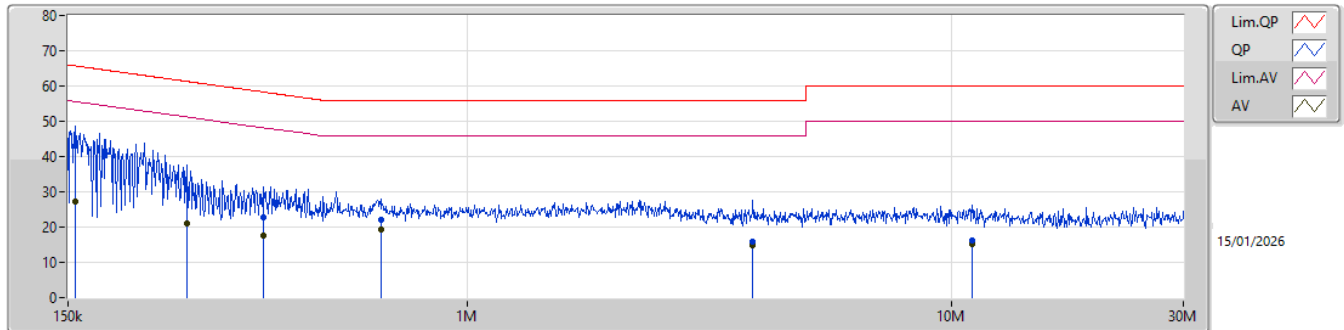
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	155.49k	43.07	65.69	-22.62	Line

Result

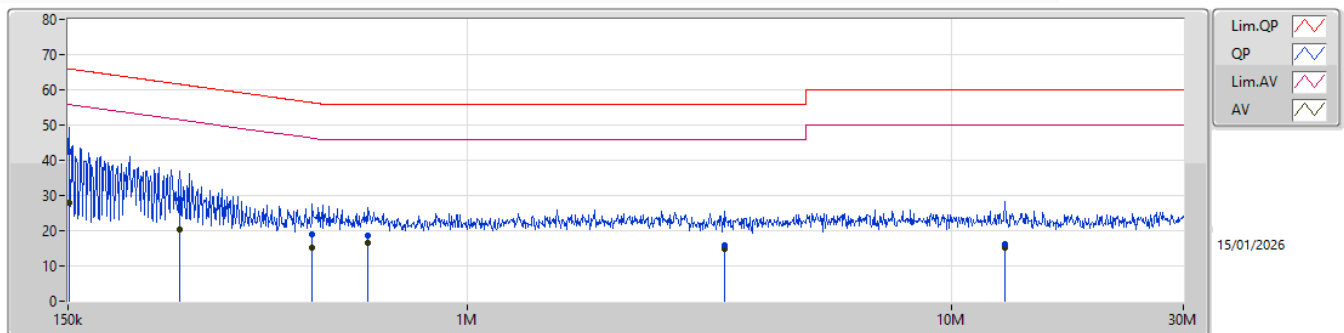
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	155.49k	43.07	65.69	-22.62	Line
Mode 1	Pass	AV	155.49k	27.26	55.69	-28.43	Line
Mode 1	Pass	QP	263.36k	30.62	61.32	-30.70	Line
Mode 1	Pass	AV	263.36k	20.97	51.32	-30.35	Line
Mode 1	Pass	QP	380.23k	22.85	58.28	-35.43	Line
Mode 1	Pass	AV	380.23k	17.42	48.28	-30.86	Line
Mode 1	Pass	QP	662.27k	21.91	56.00	-34.09	Line
Mode 1	Pass	AV	662.27k	19.31	46.00	-26.69	Line
Mode 1	Pass	QP	3.88M	15.93	56.00	-40.07	Line
Mode 1	Pass	AV	3.88M	14.78	46.00	-31.22	Line
Mode 1	Pass	QP	11M	16.05	60.00	-43.95	Line
Mode 1	Pass	AV	11M	15.22	50.00	-34.78	Line
Mode 1	Pass	QP	150.6k	42.32	65.96	-23.64	Neutral
Mode 1	Pass	AV	150.6k	27.83	55.96	-28.13	Neutral
Mode 1	Pass	QP	255.08k	28.93	61.58	-32.65	Neutral
Mode 1	Pass	AV	255.08k	20.49	51.58	-31.09	Neutral
Mode 1	Pass	QP	479.29k	18.92	56.34	-37.42	Neutral
Mode 1	Pass	AV	479.29k	15.21	46.34	-31.13	Neutral
Mode 1	Pass	QP	621.29k	18.59	56.00	-37.41	Neutral
Mode 1	Pass	AV	621.29k	16.38	46.00	-29.62	Neutral
Mode 1	Pass	QP	3.4M	16.02	56.00	-39.98	Neutral
Mode 1	Pass	AV	3.4M	14.79	46.00	-31.21	Neutral
Mode 1	Pass	QP	12.86M	16.09	60.00	-43.91	Neutral
Mode 1	Pass	AV	12.86M	15.05	50.00	-34.95	Neutral

Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	155.49k	43.07	65.69	-22.62	19.77	Line	23.30	9.64	0.01	10.12
AV	155.49k	27.26	55.69	-28.43	19.77	Line	7.49	9.64	0.01	10.12
QP	263.36k	30.62	61.32	-30.70	19.78	Line	10.84	9.64	0.02	10.12
AV	263.36k	20.97	51.32	-30.35	19.78	Line	1.19	9.64	0.02	10.12
QP	380.23k	22.85	58.28	-35.43	19.78	Line	3.07	9.63	0.03	10.12
AV	380.23k	17.42	48.28	-30.86	19.78	Line	-2.36	9.63	0.03	10.12
QP	662.27k	21.91	56.00	-34.09	19.80	Line	2.11	9.64	0.04	10.12
AV	662.27k	19.31	46.00	-26.69	19.80	Line	-0.49	9.64	0.04	10.12
QP	3.88M	15.93	56.00	-40.07	19.84	Line	-3.91	9.66	0.05	10.13
AV	3.88M	14.78	46.00	-31.22	19.84	Line	-5.06	9.66	0.05	10.13
QP	11M	16.05	60.00	-43.95	20.07	Line	-4.02	9.68	0.25	10.14
AV	11M	15.22	50.00	-34.78	20.07	Line	-4.85	9.68	0.25	10.14

Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	150.6k	42.32	65.96	-23.64	19.77	Neutral	22.55	9.64	0.01	10.12
AV	150.6k	27.83	55.96	-28.13	19.77	Neutral	8.06	9.64	0.01	10.12
QP	255.08k	28.93	61.58	-32.65	19.77	Neutral	9.16	9.63	0.02	10.12
AV	255.08k	20.49	51.58	-31.09	19.77	Neutral	0.72	9.63	0.02	10.12
QP	479.29k	18.92	56.34	-37.42	19.78	Neutral	-0.86	9.63	0.03	10.12
AV	479.29k	15.21	46.34	-31.13	19.78	Neutral	-4.57	9.63	0.03	10.12
QP	621.29k	18.59	56.00	-37.41	19.79	Neutral	-1.20	9.63	0.04	10.12
AV	621.29k	16.38	46.00	-29.62	19.79	Neutral	-3.41	9.63	0.04	10.12
QP	3.4M	16.02	56.00	-39.98	19.84	Neutral	-3.82	9.66	0.05	10.13
AV	3.4M	14.79	46.00	-31.21	19.84	Neutral	-5.05	9.66	0.05	10.13
QP	12.86M	16.09	60.00	-43.91	20.09	Neutral	-4.00	9.70	0.26	10.13
AV	12.86M	15.05	50.00	-34.95	20.09	Neutral	-5.04	9.70	0.26	10.13

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-LE(1Mbps)	757.5k	1.061M	1M06F1D	663.75k	1.05M
BT-LE(2Mbps)	1.3M	2.113M	2M11F1D	1.133M	2.073M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

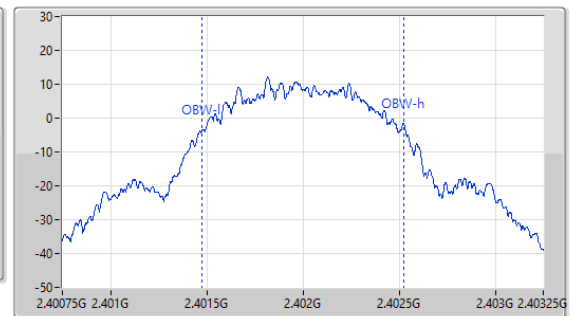
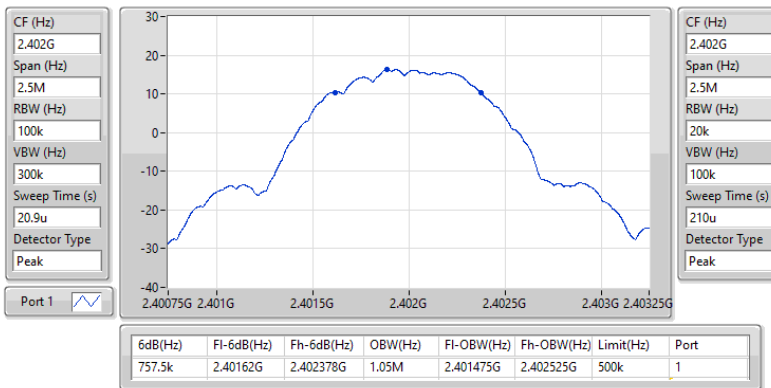
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	757.5k	1.05M
2440MHz	Pass	500k	695k	1.059M
2480MHz	Pass	500k	663.75k	1.061M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.133M	2.077M
2440MHz	Pass	500k	1.3M	2.113M
2480MHz	Pass	500k	1.21M	2.073M

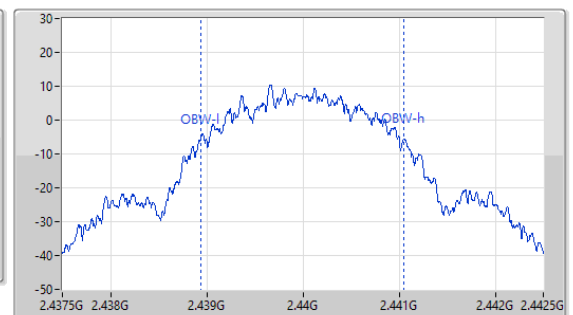
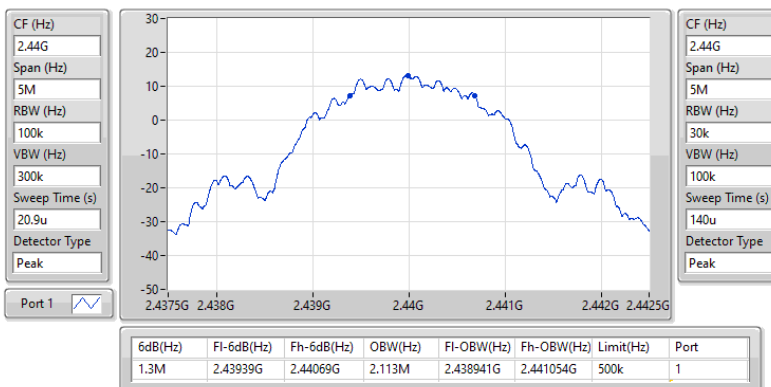
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_BT-LE(1Mbps)
EBW-DTS
2402MHz

15/01/2026


2.4-2.4835GHz_BT-LE(2Mbps)
EBW-DTS
2440MHz

15/01/2026





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	19.04	0.08017
BT-LE(2Mbps)	18.58	0.07211

**Result**

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	3.57	19.04	30.00
2440MHz	Pass	3.57	18.67	30.00
2480MHz	Pass	3.57	18.01	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	3.57	18.58	30.00
2440MHz	Pass	3.57	18.35	30.00
2480MHz	Pass	3.57	17.60	30.00

DG = Directional Gain; Port X = Port X output power;
Inf = There's no restriction for the limit.



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	1.99
BT-LE(2Mbps)	1.85

RBW = 3kHz;



Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	3.57	1.99	8.00
2440MHz	Pass	3.57	1.01	8.00
2480MHz	Pass	3.57	-0.21	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	3.57	1.12	8.00
2440MHz	Pass	3.57	1.85	8.00
2480MHz	Pass	3.57	0.95	8.00

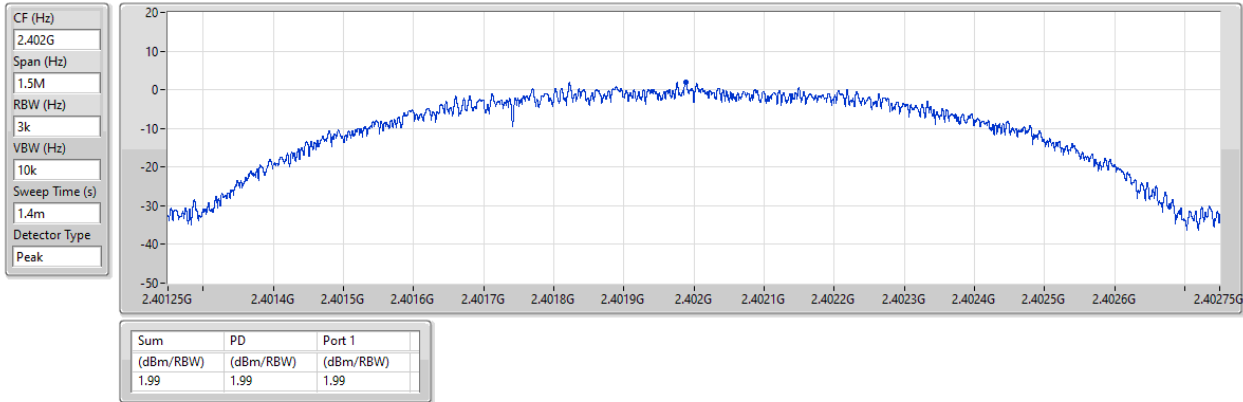
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
Inf = There's no restriction for the limit.

2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2402MHz

15/01/2026

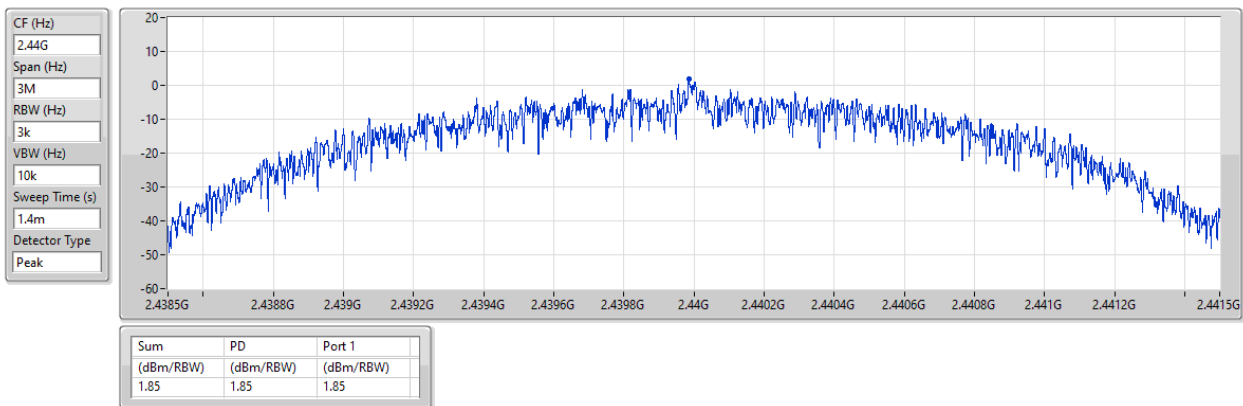


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2440MHz

15/01/2026



Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.40217G	17.92	-12.08	2.19553G	-54.44	2.39984G	-35.05	2.4G	-33.61	2.50298G	-55.00	21.49055G	-43.25	1
BT-LE(2Mbps)	Pass	2.40184G	18.25	-11.75	2.1779G	-53.34	2.4G	-13.83	2.4G	-14.50	2.5023G	-53.64	21.95172G	-42.86	1

Result

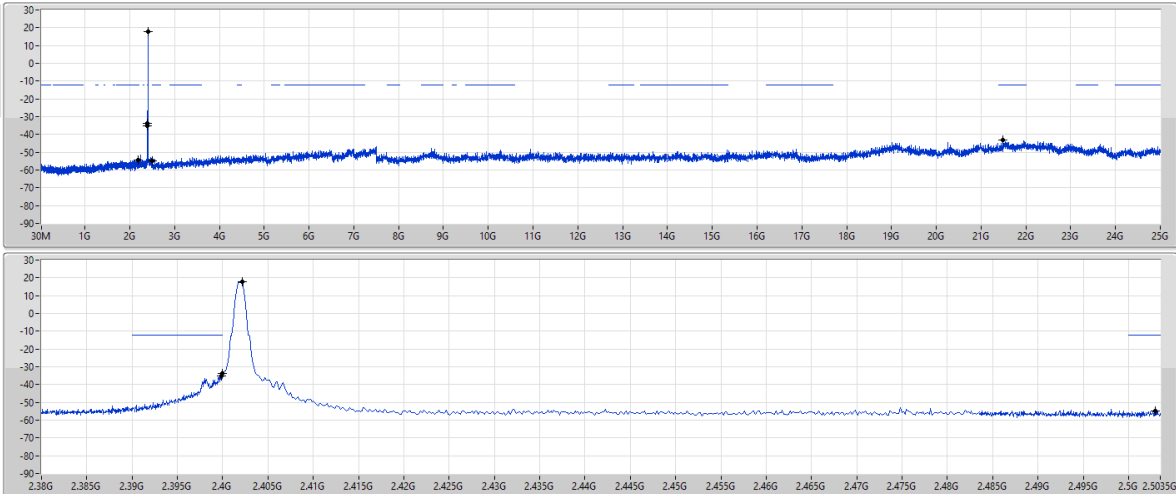
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40217G	17.92	-12.08	2.19553G	-54.44	2.39984G	-35.05	2.4G	-33.61	2.50298G	-55.00	21.49055G	-43.25	1
2440MHz	Pass	2.40217G	17.92	-12.08	2.11328G	-53.85	2.39948G	-54.07	2.4G	-56.08	2.5003G	-54.93	21.64802G	-43.51	1
2480MHz	Pass	2.40217G	17.92	-12.08	2.18613G	-54.06	2.39352G	-54.19	2.4G	-55.75	2.50238G	-53.32	21.97422G	-43.09	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40184G	18.25	-11.75	2.1779G	-53.34	2.4G	-13.83	2.4G	-14.50	2.5023G	-53.64	21.95172G	-42.86	1
2440MHz	Pass	2.40184G	18.25	-11.75	2.13325G	-54.17	2.39836G	-54.16	2.4G	-55.97	2.50006G	-55.09	21.90673G	-43.36	1
2480MHz	Pass	2.40184G	18.25	-11.75	2.10035G	-53.83	2.39516G	-54.58	2.4G	-55.59	2.5023G	-53.80	21.59459G	-43.45	1

2.4-2.4835GHz_BT-LE(1Mbps)

CSEndB-DTS

2402MHz

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak



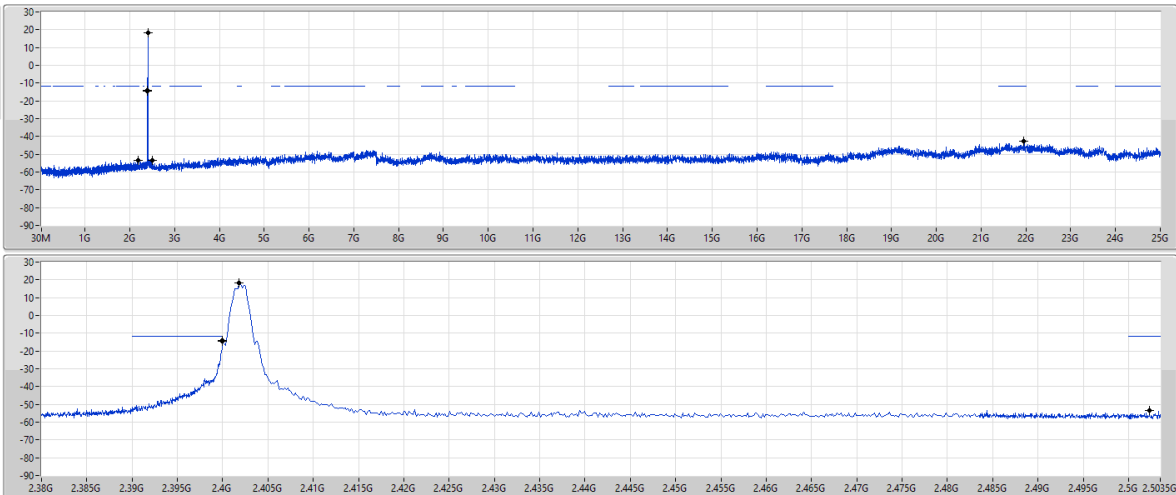
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2.40217G	17.92	-12.08	2.19553G	-54.44	2.39984G	-35.05	2.4G	-33.61	2.50298G	-55.00	2.149055G	-43.25	1

2.4-2.4835GHz_BT-LE(2Mbps)

CSEndB-DTS

2402MHz

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40184G	18.25	-11.75	2.1779G	-53.34	2.4G	-13.83	2.4G	-14.50	2.5023G	-53.64	2.195172G	-42.86	1



Summary

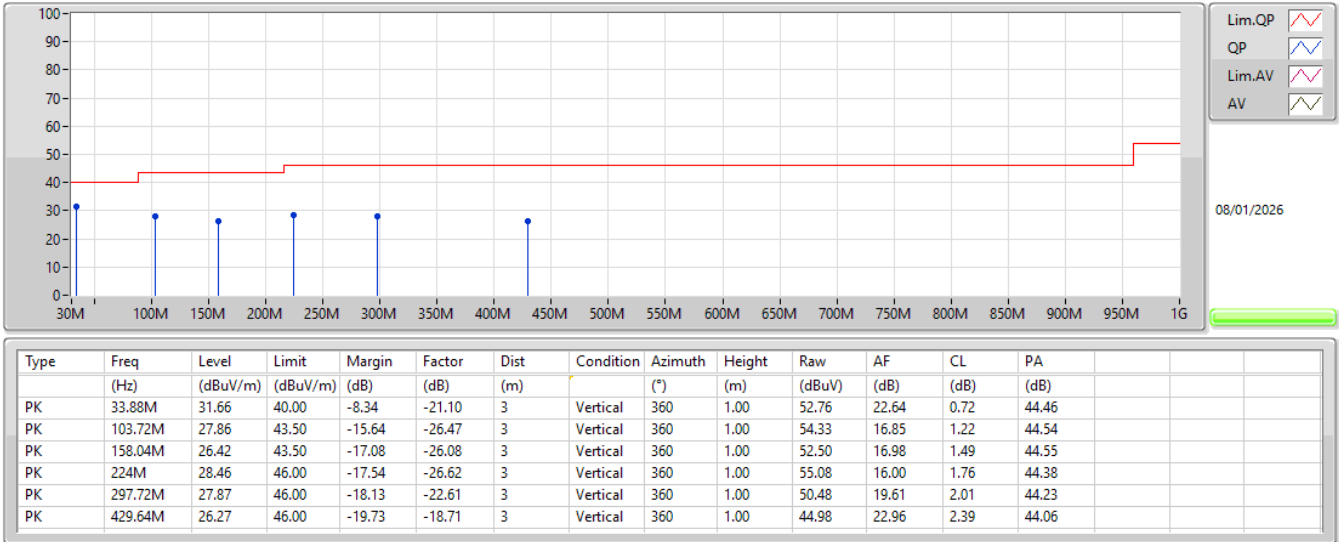
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	PK	33.88M	31.66	40.00	-8.34	3	Vertical	360	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2440MHz_Adapter	Pass	PK	33.88M	31.66	40.00	-8.34	3	Vertical	360	1.00
2440MHz_Adapter	Pass	PK	103.72M	27.86	43.50	-15.64	3	Vertical	360	1.00
2440MHz_Adapter	Pass	PK	158.04M	26.42	43.50	-17.08	3	Vertical	360	1.00
2440MHz_Adapter	Pass	PK	224M	28.46	46.00	-17.54	3	Vertical	360	1.00
2440MHz_Adapter	Pass	PK	297.72M	27.87	46.00	-18.13	3	Vertical	360	1.00
2440MHz_Adapter	Pass	PK	429.64M	26.27	46.00	-19.73	3	Vertical	360	1.00
2440MHz_Adapter	Pass	PK	33.88M	23.08	40.00	-16.92	3	Horizontal	0	1.00
2440MHz_Adapter	Pass	PK	146.4M	25.48	43.50	-18.02	3	Horizontal	0	1.00
2440MHz_Adapter	Pass	PK	260.86M	24.09	46.00	-21.91	3	Horizontal	0	1.00
2440MHz_Adapter	Pass	PK	423.82M	24.03	46.00	-21.97	3	Horizontal	0	1.00
2440MHz_Adapter	Pass	PK	716.76M	29.31	46.00	-16.69	3	Horizontal	0	1.00
2440MHz_Adapter	Pass	PK	862.26M	33.39	46.00	-12.61	3	Horizontal	0	1.00

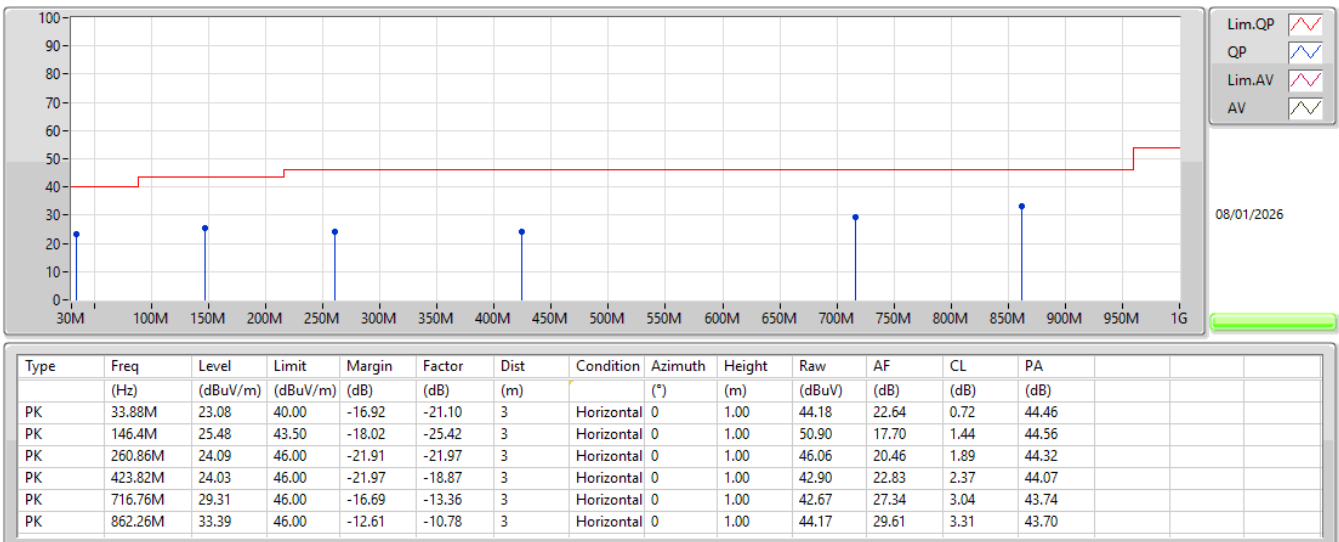
2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_Adapter



2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_Adapter





Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	AV	2.4835G	50.14	54.00	-3.86	3	Horizontal	29	1.50
BT-LE(2Mbps)	Pass	AV	2.4835G	52.92	54.00	-1.08	3	Horizontal	29	1.01

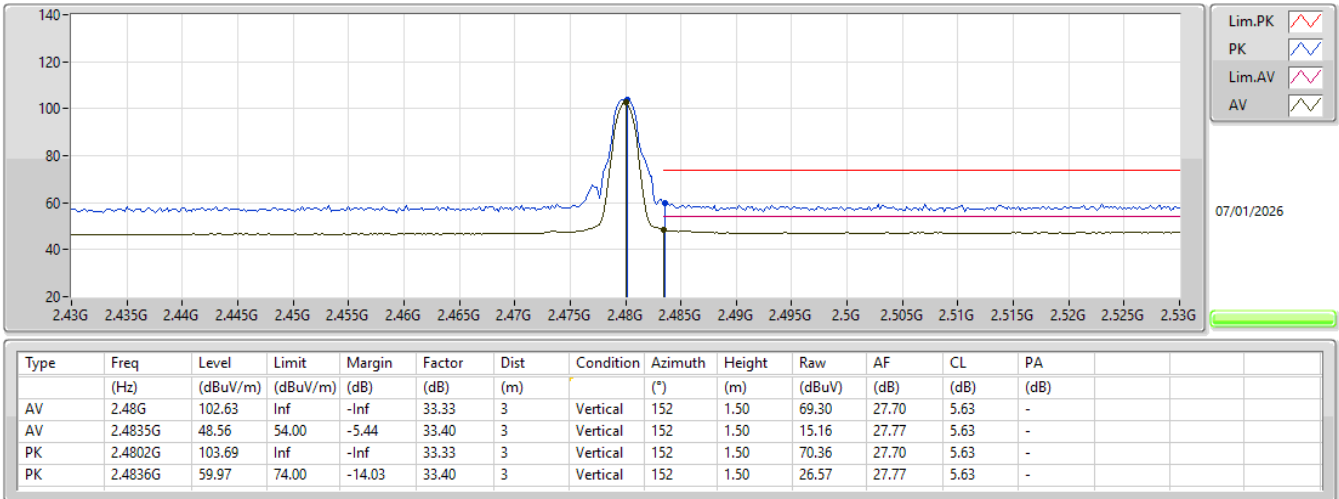
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.39G	46.34	54.00	-7.66	3	Vertical	150	1.98
2402MHz	Pass	AV	2.402G	108.24	Inf	-Inf	3	Vertical	150	1.98
2402MHz	Pass	PK	2.3896G	59.17	74.00	-14.83	3	Vertical	150	1.98
2402MHz	Pass	PK	2.4018G	109.34	Inf	-Inf	3	Vertical	150	1.98
2402MHz	Pass	AV	2.3894G	46.43	54.00	-7.57	3	Horizontal	22	1.06
2402MHz	Pass	AV	2.402G	110.20	Inf	-Inf	3	Horizontal	22	1.06
2402MHz	Pass	PK	2.3886G	58.10	74.00	-15.90	3	Horizontal	22	1.06
2402MHz	Pass	PK	2.402G	111.20	Inf	-Inf	3	Horizontal	22	1.06
2402MHz	Pass	AV	4.80394G	37.02	54.00	-16.98	3	Vertical	134	1.06
2402MHz	Pass	PK	4.80348G	47.31	74.00	-26.69	3	Vertical	134	1.06
2402MHz	Pass	AV	4.8039G	41.77	54.00	-12.23	3	Horizontal	342	1.46
2402MHz	Pass	PK	4.80348G	49.67	74.00	-24.33	3	Horizontal	342	1.46
2440MHz	Pass	AV	2.39G	46.34	54.00	-7.66	3	Vertical	151	1.93
2440MHz	Pass	AV	2.44G	106.65	Inf	-Inf	3	Vertical	151	1.93
2440MHz	Pass	AV	2.4984G	47.19	54.00	-6.81	3	Vertical	151	1.93
2440MHz	Pass	PK	2.3728G	57.97	74.00	-16.03	3	Vertical	151	1.93
2440MHz	Pass	PK	2.44G	107.62	Inf	-Inf	3	Vertical	151	1.93
2440MHz	Pass	PK	2.4876G	59.04	74.00	-14.96	3	Vertical	151	1.93
2440MHz	Pass	AV	2.3516G	46.30	54.00	-7.70	3	Horizontal	29	1.01
2440MHz	Pass	AV	2.44G	109.84	Inf	-Inf	3	Horizontal	29	1.01
2440MHz	Pass	AV	2.4996G	47.24	54.00	-6.76	3	Horizontal	29	1.01
2440MHz	Pass	PK	2.3804G	58.10	74.00	-15.90	3	Horizontal	29	1.01
2440MHz	Pass	PK	2.4396G	110.81	Inf	-Inf	3	Horizontal	29	1.01
2440MHz	Pass	PK	2.486G	58.93	74.00	-15.07	3	Horizontal	29	1.01
2440MHz	Pass	AV	4.87992G	38.44	54.00	-15.56	3	Vertical	175	1.45
2440MHz	Pass	AV	7.32052G	43.77	54.00	-10.23	3	Vertical	200	1.45
2440MHz	Pass	PK	4.8791G	47.29	74.00	-26.71	3	Vertical	175	1.45
2440MHz	Pass	PK	7.31918G	53.73	74.00	-20.27	3	Vertical	200	1.45
2440MHz	Pass	AV	4.87986G	38.03	54.00	-15.97	3	Horizontal	347	1.13
2440MHz	Pass	AV	7.32038G	46.94	54.00	-7.06	3	Horizontal	161	1.72
2440MHz	Pass	PK	4.87948G	47.26	74.00	-26.74	3	Horizontal	347	1.13
2440MHz	Pass	PK	7.31902G	55.98	74.00	-18.02	3	Horizontal	161	1.72
2480MHz	Pass	AV	2.48G	102.63	Inf	-Inf	3	Vertical	152	1.50
2480MHz	Pass	AV	2.4835G	48.56	54.00	-5.44	3	Vertical	152	1.50
2480MHz	Pass	PK	2.4802G	103.69	Inf	-Inf	3	Vertical	152	1.50
2480MHz	Pass	PK	2.4836G	59.97	74.00	-14.03	3	Vertical	152	1.50
2480MHz	Pass	AV	2.48G	107.41	Inf	-Inf	3	Horizontal	29	1.50
2480MHz	Pass	AV	2.4835G	50.14	54.00	-3.86	3	Horizontal	29	1.50
2480MHz	Pass	PK	2.4796G	108.54	Inf	-Inf	3	Horizontal	29	1.50
2480MHz	Pass	PK	2.4836G	64.83	74.00	-9.17	3	Horizontal	29	1.50
2480MHz	Pass	AV	4.95978G	39.68	54.00	-14.32	3	Vertical	178	1.50
2480MHz	Pass	AV	7.43918G	43.33	54.00	-10.67	3	Vertical	201	1.96
2480MHz	Pass	PK	4.96044G	48.61	74.00	-25.39	3	Vertical	178	1.50
2480MHz	Pass	PK	7.43928G	53.10	74.00	-20.90	3	Vertical	201	1.96
2480MHz	Pass	AV	4.95984G	37.64	54.00	-16.36	3	Horizontal	250	1.99
2480MHz	Pass	AV	7.44054G	44.78	54.00	-9.22	3	Horizontal	203	1.45
2480MHz	Pass	PK	4.95936G	48.03	74.00	-25.97	3	Horizontal	250	1.99
2480MHz	Pass	PK	7.43914G	54.18	74.00	-19.82	3	Horizontal	203	1.45
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3898G	46.44	54.00	-7.56	3	Vertical	150	1.56
2402MHz	Pass	AV	2.402G	105.06	Inf	-Inf	3	Vertical	150	1.56
2402MHz	Pass	PK	2.387G	58.34	74.00	-15.66	3	Vertical	150	1.56
2402MHz	Pass	PK	2.4014G	107.85	Inf	-Inf	3	Vertical	150	1.56
2402MHz	Pass	AV	2.3896G	46.56	54.00	-7.44	3	Horizontal	5	1.28
2402MHz	Pass	AV	2.402G	107.51	Inf	-Inf	3	Horizontal	5	1.28
2402MHz	Pass	PK	2.3648G	58.85	74.00	-15.15	3	Horizontal	5	1.28
2402MHz	Pass	PK	2.402G	110.34	Inf	-Inf	3	Horizontal	5	1.28
2402MHz	Pass	AV	4.80476G	35.87	54.00	-18.13	3	Vertical	134	2.81
2402MHz	Pass	PK	4.8032G	46.27	74.00	-27.73	3	Vertical	134	2.81
2402MHz	Pass	AV	4.80482G	39.23	54.00	-14.77	3	Horizontal	345	1.50

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2402MHz	Pass	PK	4.80488G	49.19	74.00	-24.81	3	Horizontal	345	1.50
2440MHz	Pass	AV	2.3744G	46.37	54.00	-7.63	3	Vertical	149	1.76
2440MHz	Pass	AV	2.44G	103.91	Inf	-Inf	3	Vertical	149	1.76
2440MHz	Pass	AV	2.4948G	47.35	54.00	-6.65	3	Vertical	149	1.76
2440MHz	Pass	PK	2.384G	58.13	74.00	-15.87	3	Vertical	149	1.76
2440MHz	Pass	PK	2.4396G	106.77	Inf	-Inf	3	Vertical	149	1.76
2440MHz	Pass	PK	2.4984G	58.60	74.00	-15.40	3	Vertical	149	1.76
2440MHz	Pass	AV	2.3836G	46.34	54.00	-7.66	3	Horizontal	26	1.00
2440MHz	Pass	AV	2.44G	107.98	Inf	-Inf	3	Horizontal	26	1.00
2440MHz	Pass	AV	2.498G	47.24	54.00	-6.76	3	Horizontal	26	1.00
2440MHz	Pass	PK	2.388G	57.96	74.00	-16.04	3	Horizontal	26	1.00
2440MHz	Pass	PK	2.4404G	110.72	Inf	-Inf	3	Horizontal	26	1.00
2440MHz	Pass	PK	2.4888G	59.33	74.00	-14.67	3	Horizontal	26	1.00
2440MHz	Pass	AV	4.88064G	36.40	54.00	-17.60	3	Vertical	172	1.50
2440MHz	Pass	AV	7.32116G	42.79	54.00	-11.21	3	Vertical	197	1.68
2440MHz	Pass	PK	4.87896G	47.86	74.00	-26.14	3	Vertical	172	1.50
2440MHz	Pass	PK	7.32148G	53.23	74.00	-20.77	3	Vertical	197	1.68
2440MHz	Pass	AV	4.87898G	36.64	54.00	-17.36	3	Horizontal	346	1.13
2440MHz	Pass	AV	7.31876G	45.96	54.00	-8.04	3	Horizontal	160	1.62
2440MHz	Pass	PK	4.87892G	47.27	74.00	-26.73	3	Horizontal	346	1.13
2440MHz	Pass	PK	7.32132G	55.31	74.00	-18.69	3	Horizontal	160	1.62
2480MHz	Pass	AV	2.4798G	102.95	Inf	-Inf	3	Vertical	152	1.92
2480MHz	Pass	AV	2.4835G	50.47	54.00	-3.53	3	Vertical	152	1.92
2480MHz	Pass	PK	2.4804G	105.75	Inf	-Inf	3	Vertical	152	1.92
2480MHz	Pass	PK	2.4835G	65.13	74.00	-8.87	3	Vertical	152	1.92
2480MHz	Pass	AV	2.48G	106.81	Inf	-Inf	3	Horizontal	29	1.01
2480MHz	Pass	AV	2.4835G	52.92	54.00	-1.08	3	Horizontal	29	1.01
2480MHz	Pass	PK	2.4804G	109.63	Inf	-Inf	3	Horizontal	29	1.01
2480MHz	Pass	PK	2.4835G	69.01	74.00	-4.99	3	Horizontal	29	1.01
2480MHz	Pass	AV	4.95898G	37.53	54.00	-16.47	3	Vertical	179	1.39
2480MHz	Pass	AV	7.43856G	42.06	54.00	-11.94	3	Vertical	202	1.84
2480MHz	Pass	PK	4.95892G	48.27	74.00	-25.73	3	Vertical	179	1.39
2480MHz	Pass	PK	7.4411G	52.42	74.00	-21.58	3	Vertical	202	1.84
2480MHz	Pass	AV	4.96076G	35.75	54.00	-18.25	3	Horizontal	243	1.89
2480MHz	Pass	AV	7.441G	43.66	54.00	-10.34	3	Horizontal	204	1.62
2480MHz	Pass	PK	4.95914G	47.38	74.00	-26.62	3	Horizontal	243	1.89
2480MHz	Pass	PK	7.43828G	53.85	74.00	-20.15	3	Horizontal	204	1.62

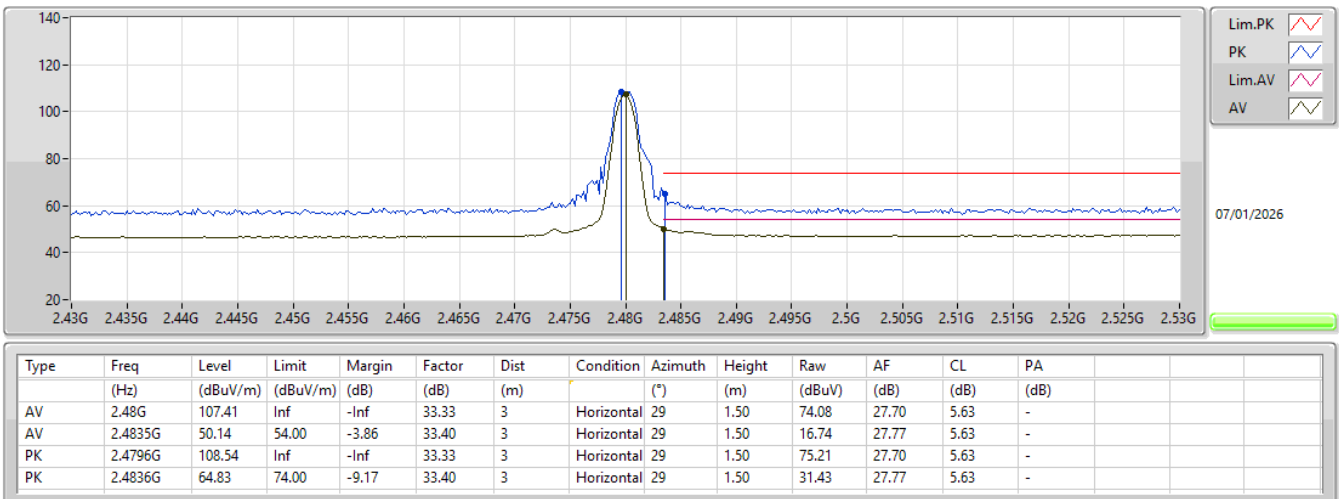
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2480MHz_TX



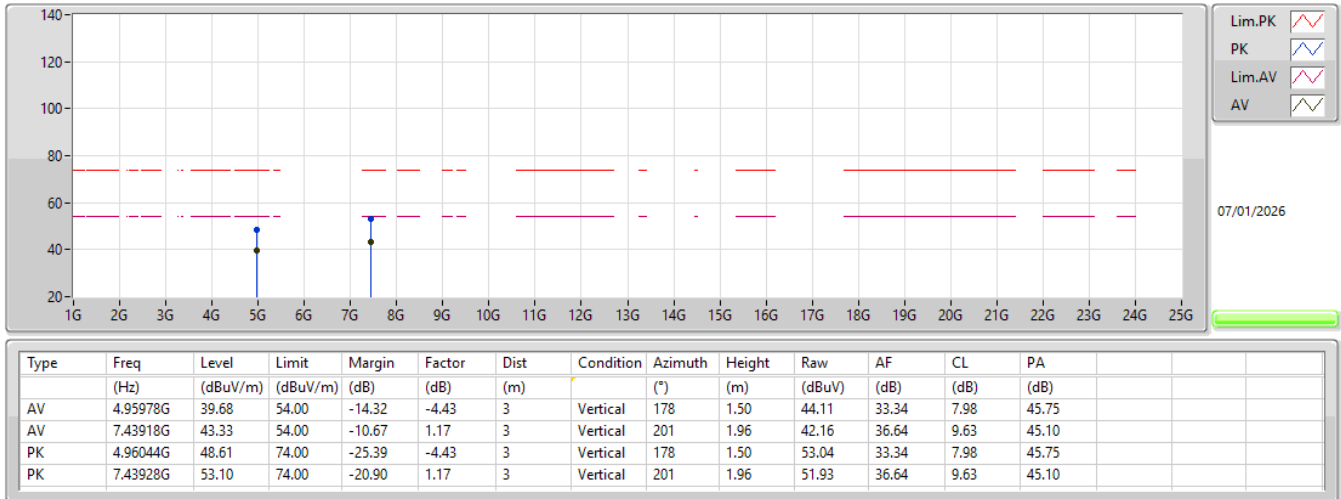
2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX



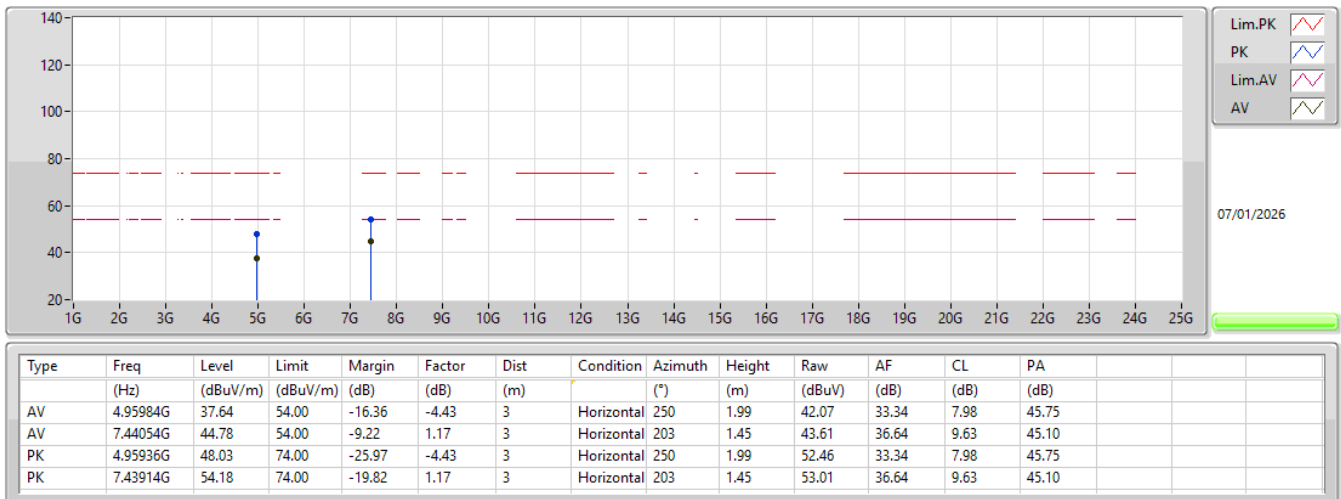
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2480MHz_TX



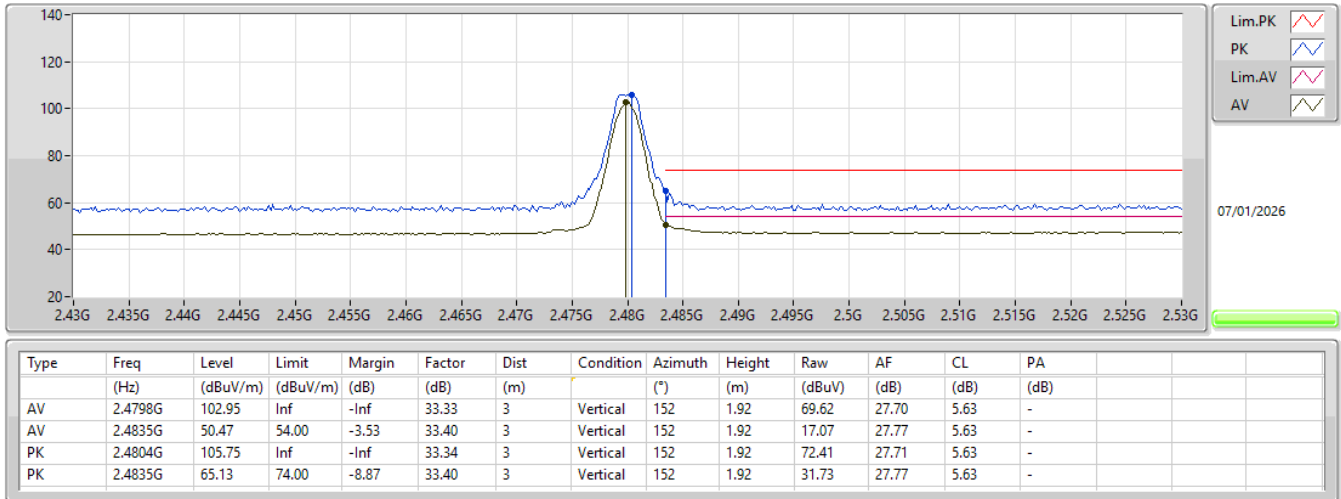
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2480MHz_TX



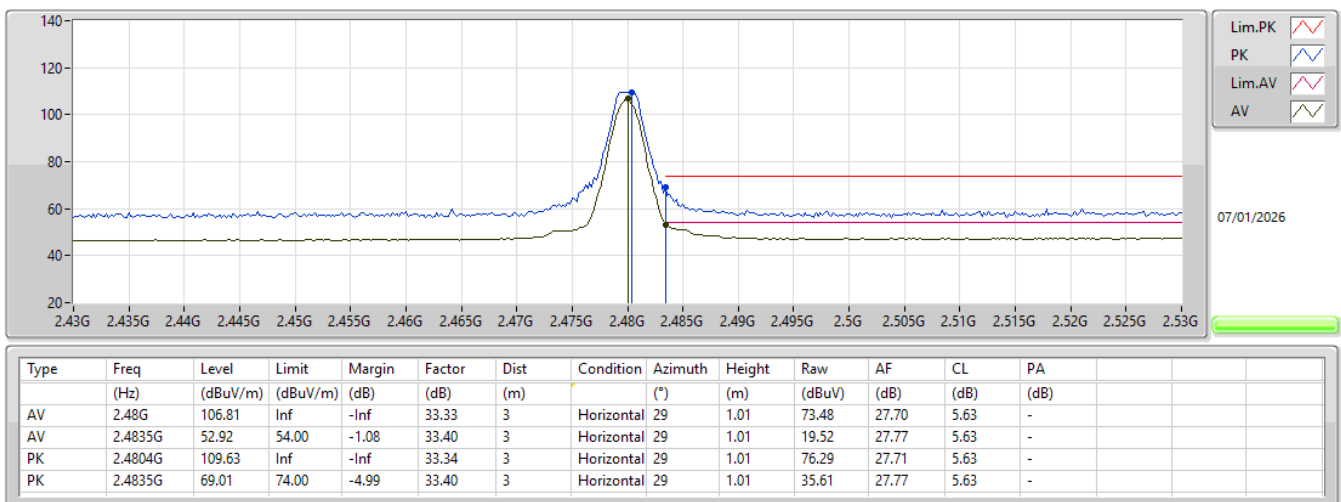
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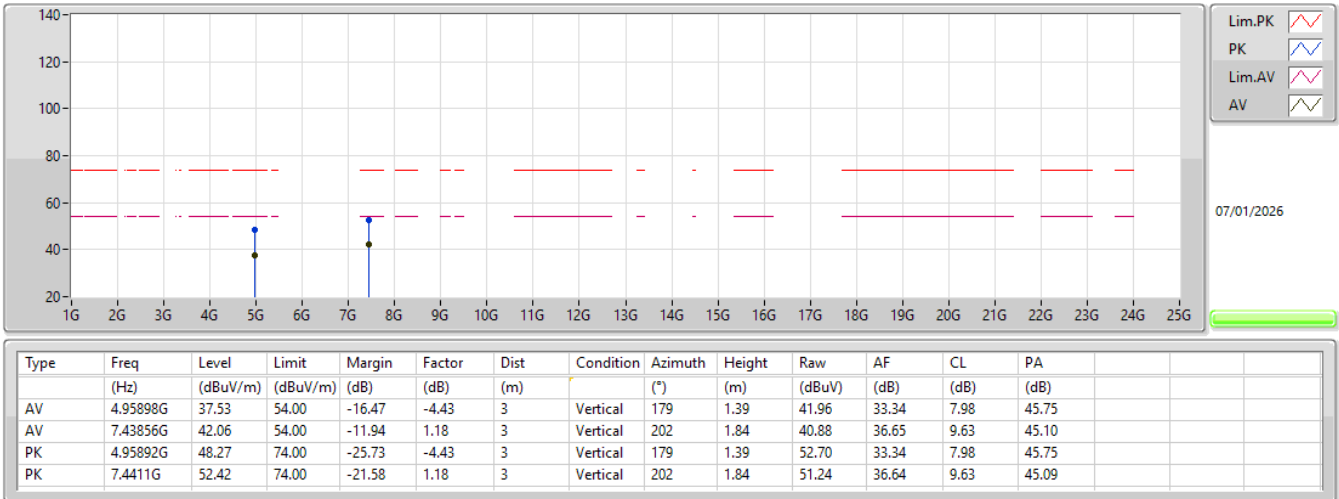
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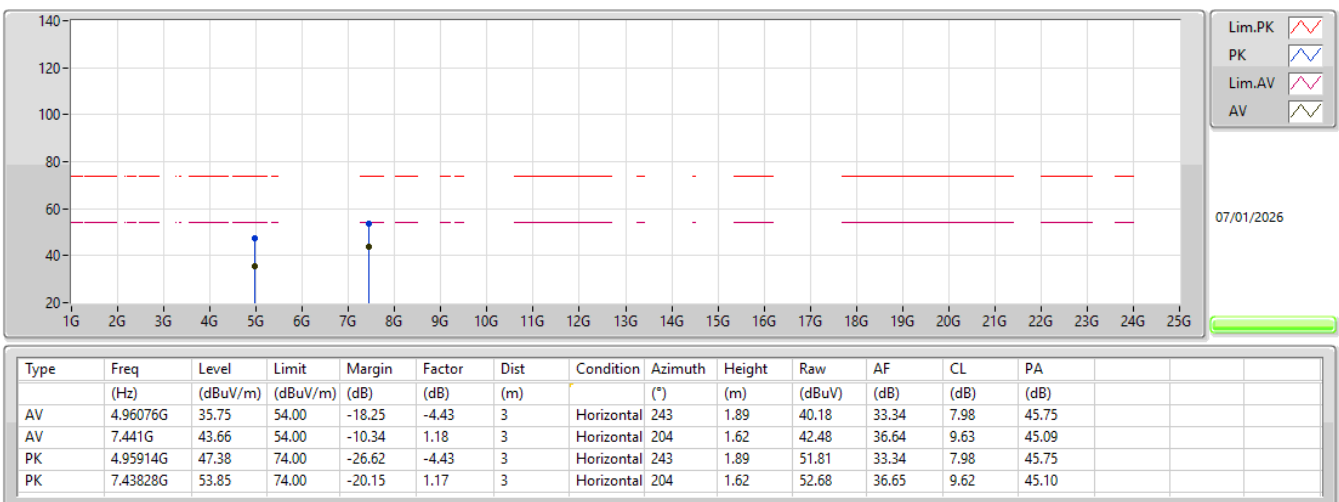
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2480MHz_TX



2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX





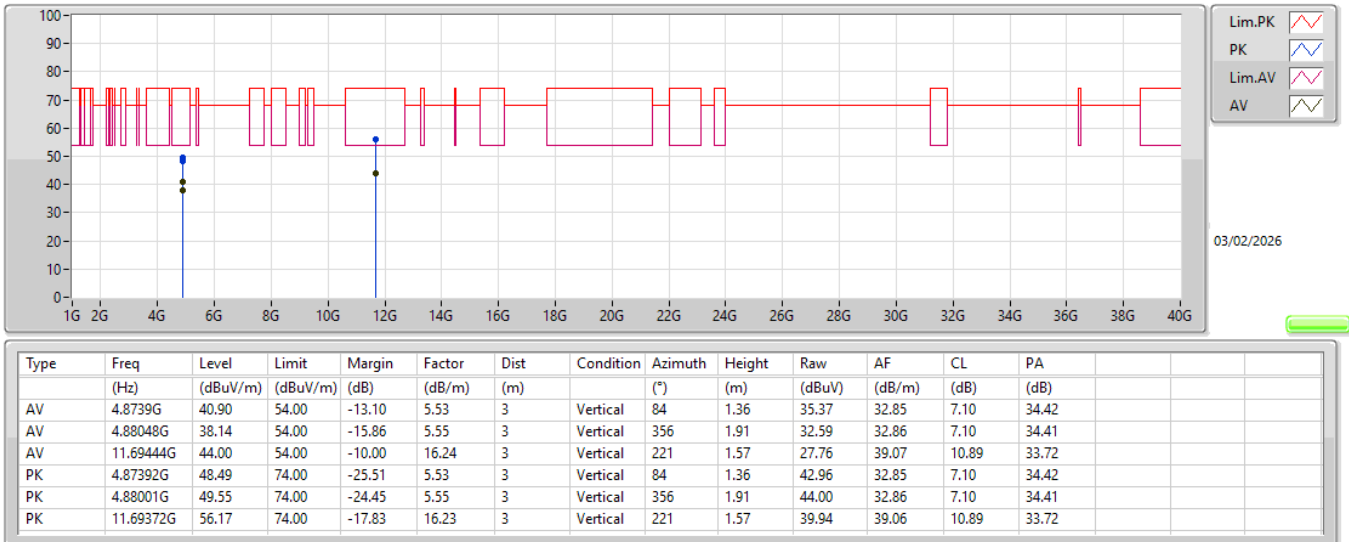
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	4.87394G	48.94	54.00	-5.06	Horizontal

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Mode 1	Pass	AV	4.8739G	40.90	54.00	-13.10	3	Vertical	84	1.36
Mode 1	Pass	AV	4.88048G	38.14	54.00	-15.86	3	Vertical	356	1.91
Mode 1	Pass	AV	11.69444G	44.00	54.00	-10.00	3	Vertical	221	1.57
Mode 1	Pass	PK	4.87392G	48.49	74.00	-25.51	3	Vertical	84	1.36
Mode 1	Pass	PK	4.88001G	49.55	74.00	-24.45	3	Vertical	356	1.91
Mode 1	Pass	PK	11.69372G	56.17	74.00	-17.83	3	Vertical	221	1.57
Mode 1	Pass	AV	4.87394G	48.94	54.00	-5.06	3	Horizontal	7	1.43
Mode 1	Pass	AV	4.88004G	41.02	54.00	-12.98	3	Horizontal	342	1.16
Mode 1	Pass	AV	11.696G	44.09	54.00	-9.91	3	Horizontal	263	1.49
Mode 1	Pass	PK	4.87396G	54.21	74.00	-19.79	3	Horizontal	7	1.43
Mode 1	Pass	PK	4.87953G	51.30	74.00	-22.70	3	Horizontal	342	1.16
Mode 1	Pass	PK	11.7067G	56.38	74.00	-17.62	3	Horizontal	263	1.49

Radiated Emissions above 1GHz_Mode 1



Radiated Emissions above 1GHz_Mode 1

